

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|-------------------------------------------------------------------------|------------------------------------|------------------|---------|------------------|
| L1 | 4078 | substrate and (waveguide same grating same coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L2 | 142 | L1 and (angl\$4 near2 (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L3 | 1546 | (L1 or L2) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L4 | 157 | (L1 or L2) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L5 | 40 | L2 and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L6 | 9 | L2 and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L7 | 9 | (angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L8 | 123 | (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L9 | 122 | (angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L10 | 9 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L11 | 103 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L12 | 123 | (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |

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|-----|------|-------------------------------------------------------------------|------------------------------------|----|----|------------------|
| L13 | 103 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L14 | 122 | (L12 or L13) and substrate | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L15 | 4084 | 385/37 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L16 | 827 | L15 and substrate and (waveguide same grating same coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L17 | 293 | L15 and (angl\$4 near2 (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L18 | 33 | L16 and L17 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L19 | 41 | L15 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L20 | 4078 | substrate and (waveguide same grating same coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L21 | 142 | L20 and (angl\$4 near2 (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L22 | 1546 | (L20 or L21) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L23 | 157 | (L20 or L21) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L24 | 40 | L21 and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |

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| L25 | 9 | (angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L26 | 123 | (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L27 | 122 | (angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L28 | 9 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L29 | 103 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L30 | 123 | (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L31 | 103 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L32 | 4084 | 385/37 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L33 | 827 | L32 and substrate and (waveguide same grating same coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L34 | 293 | L32 and (angl\$4 near2 (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L35 | 33 | L33 and L34 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L36 | 9 | L21 and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |

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|-----|--------|------------------------------------------------------------------------------------------|------------------------------------|----|----|------------------|
| L37 | 41 | L32 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L38 | 122 | (L30 or L31) and substrate | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L39 | 0 | (optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near tip) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L40 | 8 | (optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L41 | 2 | (optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip) and (385/37) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L42 | 19 | (optic\$4 near fiber) and (grating near substrate) and (coupling near angle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L43 | 458795 | (optic\$3 fiber near angled near (end or tip)) and coupl\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L44 | 29 | (optic\$3 near fiber near angled near (end or tip)) and coupl\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L45 | 2085 | (optic\$4 near fiber) and (grating near coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L46 | 31 | (optic\$4 near fiber) and (grating near coupl\$4) and (fiber near angle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L47 | 6 | (optic\$4 near fiber) and (grating near substrate) and (fiber near angle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L48 | 46 | (optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near angle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |

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| L49 | 609 | (optic\$4 near fiber) and (grating near coupl\$4) and (385/37) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L50 | 19 | (optic\$4 near fiber) and (grating near coupl\$4) and (385/38) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L51 | 178 | waveguide near grating near coupler | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L52 | 104 | L51 and (optic\$4 near fiber) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L53 | 2 | L51 and 385/92 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L54 | 3 | L51 and 385/38 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L55 | 3 | L51 and (angle\$2 near (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L56 | 12 | L52 and ("45" near degree) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L57 | 2 | "20040240788" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L58 | 2 | "5657407".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L59 | 2 | "6289144".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L60 | 7 | "6144480" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |

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| L61 | 0 | "6144480.pn." | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L62 | 2 | "6144480".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L63 | 2 | "5513196".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L64 | 2 | "5444802".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L65 | 2 | "4776661".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L66 | 2 | "6430349".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L67 | 2 | "6277330".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:32 |
| L68 | 11 | (US-20020106156-\$ or US-20030010904-\$ or US-20030081902-\$ or US-20040202428-\$ or US-20040240788-\$).did. or (US-5488681-\$ or US-5657407-\$ or US-5724463-\$ or US-6136611-\$ or US-6289144-\$).did. or (DE-19507945-\$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 11:32 |
| L69 | 5 | L68 and (polar\$8 or "PMF") | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 11:32 |
| L70 | 2796 | ((polarization adj maintaining adj fiber) or "PMF") | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 11:32 |
| L71 | 1 | L70 and (waveguide adj grating adj coupler) | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 11:32 |
| L72 | 1 | L70 and (waveguide near grating near coupler) | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 11:32 |

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| L73 | 92 | L70 and (waveguide near2 coupler) | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 11:32 |
| L74 | 33 | L70 and (grating near2 coupler) | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 11:32 |
| L75 | 7 | L73 and L74 | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 11:32 |
| L76 | 2593 | 385/27 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:36 |
| L77 | 2505 | 385/12 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:36 |
| L78 | 1559 | 385/50 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/06 11:36 |
| S1 | 4039 | substrate and (waveguide same grating same coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/31 14:20 |
| S2 | 140 | S1 and (angl\$4 near2 (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/31 14:20 |
| S3 | 1529 | (S1 or S2) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/10 13:36 |
| S4 | 156 | (S1 or S2) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/10 13:36 |
| S5 | 8 | S2 and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/10 13:37 |
| S6 | 39 | S2 and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/10 13:36 |
| S7 | 8 | (angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/10 13:40 |

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| S8 | 122 | (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/31 14:20 |
| S9 | 121 | (angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/10 13:41 |
| S10 | 8 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/10 13:41 |
| S11 | 100 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/10 13:41 |
| S12 | 122 | (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/15 13:10 |
| S13 | 101 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/15 13:10 |
| S14 | 120 | (S12 or S13) and substrate | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/15 13:10 |
| S15 | 4071 | 385/37 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/31 14:19 |
| S16 | 824 | S15 and substrate and (waveguide same grating same coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/31 14:20 |
| S17 | 293 | S15 and (angl\$4 near2 (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/31 14:20 |
| S18 | 33 | S16 and S17 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/31 14:20 |
| S19 | 41 | S15 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/08/31 14:21 |

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|-----|------|-------------------------------------------------------------------------|------------------------------------|----|----|------------------|
| S20 | 4073 | substrate and (waveguide same grating same coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S21 | 142 | S20 and (angl\$4 near2 (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S22 | 1544 | (S20 or S21) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S23 | 157 | (S20 or S21) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S24 | 40 | S21 and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S25 | 9 | S21 and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S26 | 9 | (angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S27 | 123 | (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S28 | 122 | (angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S29 | 9 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S30 | 103 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S31 | 123 | (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |

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|-----|--------|------------------------------------------------------------------------------------------|------------------------------------|----|----|------------------|
| S32 | 103 | (angl\$4 near2 (fiber)) and (waveguide adj grat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S33 | 122 | (S31 or S32) and substrate | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S34 | 4071 | 385/37 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S35 | 824 | S34 and substrate and (waveguide same grating same coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S36 | 293 | S34 and (angl\$4 near2 (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S37 | 33 | S35 and S36 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S38 | 41 | S34 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:54 |
| S39 | 0 | (optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near tip) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:57 |
| S40 | 8 | (optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:29 |
| S41 | 2 | (optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip) and (385/37) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:56 |
| S42 | 19 | (optic\$4 near fiber) and (grating near substrate) and (coupling near angle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:58 |
| S43 | 458330 | (optic\$3 fiber near angled near (end or tip)) and coupl\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:58 |

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|-----|------|--------------------------------------------------------------------------------|------------------------------------|----|----|------------------|
| S44 | 29 | (optic\$3 near fiber near angled near (end or tip)) and coupl\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 15:58 |
| S45 | 2084 | (optic\$4 near fiber) and (grating near coupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:28 |
| S46 | 31 | (optic\$4 near fiber) and (grating near coupl\$4) and (fiber near angle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:30 |
| S47 | 6 | (optic\$4 near fiber) and (grating near substrate) and (fiber near angle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:30 |
| S48 | 46 | (optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near angle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:30 |
| S49 | 608 | (optic\$4 near fiber) and (grating near coupl\$4) and (385/37) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:30 |
| S50 | 19 | (optic\$4 near fiber) and (grating near coupl\$4) and (385/38) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:30 |
| S51 | 178 | waveguide near grating near coupler | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:31 |
| S52 | 104 | S51 and (optic\$4 near fiber) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:31 |
| S53 | 12 | S52 and ("45" near degree) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:10 |
| S54 | 2 | S51 and 385/92 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:32 |
| S55 | 3 | S51 and 385/38 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:32 |

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|-----|---|----------------------------------------|---------------------------------------------|----|----|------------------|
| S56 | 3 | S51 and (angle\$2 near (tip or fiber)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 16:32 |
| S57 | 2 | "20040240788" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:12 |
| S58 | 2 | "5657407".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:16 |
| S59 | 2 | "6289144".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:17 |
| S60 | 7 | "6144480" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:17 |
| S61 | 0 | "6144480.pn." | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:17 |
| S62 | 2 | "6144480".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:18 |
| S63 | 2 | "5513196".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:23 |
| S64 | 2 | "5444802".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:29 |
| S65 | 2 | "4776661".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:32 |
| S66 | 2 | "6430349".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:33 |
| S67 | 2 | "6277330".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/09/01 18:33 |

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|-----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----|----|------------------|
| S68 | 11 | (US-20020106156-\$ or US-20030010904-\$ or US-20030081902-\$ or US-20040202428-\$ or US-20040240788-\$).did. or (US-5488681-\$ or US-5657407-\$ or US-5724463-\$ or US-6136611-\$ or US-6289144-\$).did. or (DE-19507945-\$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 10:23 |
| S69 | 5 | S68 and (polar\$8 or "PMF") | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 10:25 |
| S70 | 2796 | ((polarization adj maintaining adj fiber) or "PMF") | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 10:25 |
| S71 | 1 | S70 and (waveguide adj grating adj coupler) | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 10:27 |
| S72 | 1 | S70 and (waveguide near grating near coupler) | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 10:27 |
| S73 | 92 | S70 and (waveguide near2 coupler) | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 10:27 |
| S74 | 33 | S70 and (grating near2 coupler) | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 10:27 |
| S75 | 7 | S73 and S74 | US-PGPUB; USPAT; DERWENT | OR | ON | 2005/09/06 10:27 |